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**Configuration d'un trunk
SIP sur l'IPBX
Gigaset T440 / T640**

Gigaset pro

Créée par Jarlier Julien le nov. 04, 2015

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Interop T440/T640](#)

Interop T440/T640 OpenIP

OpenIP (T440/640 SW-version 1.0.7)

Feature	
Outgoing Calls	Yes
Incoming Calls	Yes
CLIP incoming	Yes
CLIP outgoing	Yes
Call Forwarding	Yes
Call Transfer	Yes
Call Waiting	Yes
DTMF	Yes
Anonymous Call	Yes
A-number forwarding	Yes
Fax	N/A



- OpenIP (T440/640 SW-version 1.0.7)
 - Gigaset T440/T640 PRO settings.
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Gigaset T440/T640 PRO settings.

For entering a new SIP trunk into the PBX, you need some steps:

1. Adding a new Gateway group
2. Adding a new SIP gateway
3. Defining the inbound routes (assignment of number to extension)
4. Defining the outbound routes

Gateway Group

In the Gigaset PBX go to "Administration" - "Routes" - "Gateway groups" enter a name for the new group and click on: **Create new group**

In the Gateway group you have to define the Outbound Caller ID, the Inbound DIDs (how the number is forwarded to the Inbound routes) and the Inbound caller ID (number presentation of external caller). in addition you can permit here inbound calls in general for this gateway group.

Modifier le groupe de passerelles

Titre	<input type="text" value="Openip"/>
Autoriser les appels entrants	<input checked="" type="checkbox"/>
Présentation du numéro sortant	Modèle de recherche/remplacement pour la présentation du numéro sortant (1) s/ <input type="text" value="^(.*)"/> / <input type="text" value="\$1"/> /
Asserted identity	Recherche/remplace un modèle pour l'Asserted Identity (1) s/ <input type="text" value="^(.*)"/> / <input type="text" value="\$1"/> /
Sélection directe à l'arrivée des appels entrants	Modèle de recherche/remplacement pour la suppression des préfixes (2) s/ <input type="text" value="^(.*)"/> / <input type="text" value="\$1"/> /
Présentation du numéro entrant	Modèle de recherche/remplacement pour la présentation du numéro entrant (3) s/ <input type="text" value="^(.*)"/> / <input type="text" value="\$1"/> /
Passerelles	SIP - OpenIP

Example of OpenIP group settings

Présentation des numéros sortants

Extension	Présentation du numéro	
100	0970712268	<input type="button" value="🗑"/>
101	0970712269	<input type="button" value="🗑"/>

Extension Présentation du numéro

Example how to declare outgoing number for users

Outbound caller ID

As just the last digit of the trunk number block is changing, you can select just the last digit (in brackets) and put it into the variable \$1. As the provider wants the signalling number in the format +(country-code)(city-code)(number), you have to enter this number into the next line (here: **+49891234567\$1**, where the **\$1** represents the changing part).

The provider will take care about the number representation to the called party. He will present e.g. **08912345678** to the calling party.

Modifications

In case you are using not 3-digit extensions like 123, but 2- or 4-digits, you have to change the Search/replace pattern.

In our example we are using 3-digits, where only the last digit (inside the brackets) is taken into account.

For 2-digits it can look like this:

^(\\d\\d)

+4989123456\$1

Now we're using the complete range from 10 to 99 as extensions, because **\\d \\d** is inside the bracket. Therefore we also have to remove the **'7'** from the 2nd line.

When extension **34** is dialing out, the resulting number would be **+498912345634**

Asserted Identity

These fields are used specially for external forwardings. Some providers need special settings in order to present the correct number at the receiving party. For Deutsche Telefon Standard Trunk, you can the entries from the outbound caller ID fields e.g. **^(\\d\\d)** and **+49891234567\$1**

Inbound DIDs

For incoming calls, you can use the regular expression, generated by the setup

assistant. In your case you would have to adjust the city-code and the pilot-number, according to your line-settings.

`^(?:(?:0049|+49|49|0)?89)?12345)?(.*)`

This expression cuts all possibly available country- and city-codes and the pilot-number from the incoming number and only the extension is remaining (here: **678**). This will be forwarded to the Inbound Routes.

Inbound caller ID

For incoming calls, we will add an additional **0** in front of the external number of the caller, in order to use the callback-feature of the phone (e.g. **0089987654321**). During the call-setup the additional **0** will be automatically removed.

Gateways

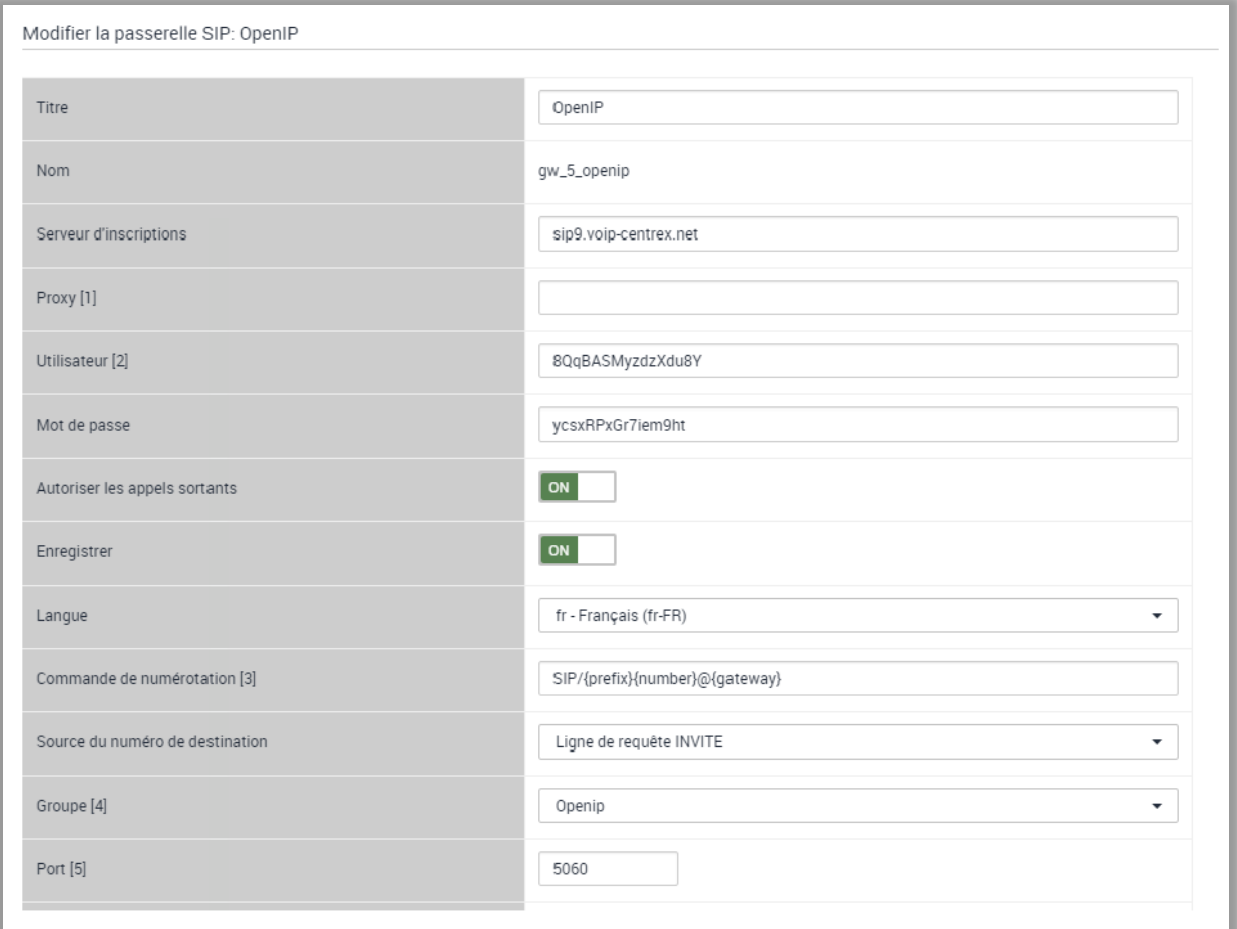
This field will be empty when you create this Gateway group. It will show later the assigned SIP gateways.

SIP gateway

In the Gigaset PBX go to "Administration" - "Routes" - "SIP gateways" enter a name for the new gateway and click on: **Create new gateway**

The SIP gateway contains all necessary data for the registration and dial command and how the number is delivered to/from the provider.

Just enter or choose the values according to your data you received from the provider.



Modifier la passerelle SIP: OpenIP	
Titre	OpenIP
Nom	gw_5_openip
Serveur d'inscriptions	sip9.voip-centrex.net
Proxy [1]	
Utilisateur [2]	8QqBASMyzdXdu8Y
Mot de passe	yctxRPxGr7iem9ht
Autoriser les appels sortants	<input checked="" type="checkbox"/>
Enregistrer	<input checked="" type="checkbox"/>
Langue	fr - Français (fr-FR)
Commande de numérotation [3]	SIP/{prefix}{number}@{gateway}
Source du numéro de destination	Ligne de requête INVITE
Groupe [4]	Openip
Port [5]	5060

Example of OpenIP gateway settings 1/2

NAT	oui
Rediriger le flux RTP	Réacheminer le flux RTP
Vérifier la disponibilité	<input checked="" type="checkbox"/> ON
Appels simultanés	0 0 for unlimited (default)
Mode DTFM	rfc2833 - Métadonnées RTP
From user	<input type="text"/>
From Domain	<input type="text"/>
T38 support	<input checked="" type="checkbox"/> ON
Non sécurisé	invite - Aucune authentification pour les invitations entrantes
Mettre à jour l'ID tiers (CLIP)	no - Désactivé (par défaut)
Faire confiance à l'ID tiers	no - Désactivé (par défaut)
Codecs [7]	<input type="checkbox"/> G.722 <input checked="" type="checkbox"/> G.729 <input checked="" type="checkbox"/> G.711a <input checked="" type="checkbox"/> G.711u <input type="checkbox"/> GSM <input type="checkbox"/> H.261 <input type="checkbox"/> H.263 <input type="checkbox"/> H.263+
Sous-réseau d'ID autorisé	0.0.0.0 / 0

Example of OpenIP gateway settings 2/2

Registrar

You can use here the DNS-name of the server.

Dial command

The dial command is the command which is used in the asterisk software. The term **{number:1}** means, that at the dialled number (e.g. **0089987654321**) the first digit is removed. If you don't use a line access code (in most cases '0' is used), you have to remove the ':1' !!! In case you want to use the prefix-fields from the outbound rules, please add '{prefix}' before '{number:1}' .

Inbound routes

In the Gigaset PBX go to "*Administration*" - "*Routes*" - "*Inbound routes*" select the correct Gateway group and press **Show**.

In addition it is advised to activate the **advanced options** by clicking it to 'ON' and then pressing **Show**.

Routages entrants

Groupe de passerelles: Openip (openip)

Advanced options: ON

Règle	Actif	Date	Jours de la semaine	Heure	Profil	Modèle	Cible	
	ON	vers	L J M J V D D ☑ ☑ ☑ ☑ ☑ ☑ ☑	00:00 vers 24:00	-	970712268	100	-
	ON	vers	L J M J V D D ☑ ☑ ☑ ☑ ☑ ☑ ☑	00:00 vers 24:00	-	970712269	101	-
	ON	vers	L J M J V D D ☑ ☑ ☑ ☑ ☑ ☑ ☑	00:00 vers 24:00	-			

Example of OpenIP Inbound routes.

Rule

Enter here a name for the according rule.

Date / Weekdays / Time

With these settings you can configure a time-controlled routing to different targets.

Pattern / Target

In the pattern you define which part of the incoming number is used to forward the call to the according extension.

In our example we receive already the correct extension from the gateway group. Therefore no further number-manipulation is necessary.

When the PBX finds an according extension it will route the call to it.

But you can add here exceptions from this rule, for example for internal fax users or waiting queues, etc.

Please have in mind the order of these rules, as the system is using **First Match!!!**

Outbound routes

In the Gigaset PBX go to "Administration" - "Routes" - "Outbound routes" activate the Advanced options by clicking it to 'ON' and then pressing **S** how.

Routages sortants

Advanced options ON

Règle	Actif	Jours de la semaine	Heure	Modèle	Groupe	Groupe de passerelles	Ajouter un préfixe	
Local	<input type="checkbox"/> ON	L J M J V D D ☑ ☑ ☑ ☑ ☑ ☑	00:00 vers 24:00	*0	[tous]	Openip - -		☰ ☷
Numéro court et urgences	<input type="checkbox"/> ON	L J M J V D D ☑ ☑ ☑ ☑ ☑ ☑	00:00 vers 24:00	*1	[tous]	Openip - -		☰ ☷
Numéro court et urgences	<input type="checkbox"/> ON	L J M J V D D ☑ ☑ ☑ ☑ ☑ ☑	00:00 vers 24:00	*3	[tous]	Openip - -		☰ ☷

Example of OpenIP Outbound routes.

Rule

Enter here a name for the according rule.

Date / Weekdays / Time

With these settings you can configure a time-controlled routing.

Pattern

In the pattern you define how the outside line is seized. In our example we define three rules :

^0 for the local calls

^1 for the urgency calls and short provider number

^3 for the urgency calls and short provider number

Remark: For calling anonymous to external parties, use the CLIR-setting in the HOME screen of the user!

Fax support

Following table shows you the current state (01.06.2015) of supported fax constellations. These results are without a guarantee. Due to different end-devices, configuration of PBX or other settings the fax transmission might fail. More info about fax via VoIP networks can be found [here](#).

Receiving	Sending			
	Internal FXS	Internal T38-Fax	External T38-Fax	External machine-Fax
Internal FXS	---	---	---	---
Internal T38-Fax	---	---	---	---
External T38-Fax	---	---	---	---
External machine-Fax	---	---	---	---